

($20^{\circ}5'9''N$ & $157^{\circ}39'W$ at 1600)

Location $21^{\circ}19'N$ & $157^{\circ}58'W$ to $20^{\circ}40'N$ & $157^{\circ}21'W$

Observer

Date 5 January 1965 Time 1325 to 1804

Weather

4.7

52 miles

January

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	3							0.6
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby								
Brown Booby	4							
Red-footed Booby	5							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	52							11.1 per hr
Gray-backed Tern								
Brown-winged Tern								
Common Noddy	25							
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	2							
Pomarine Jaeger								8 min. average time
Gull	3							
Swallow-tailed Gull	1							
Pterodroma	2							
Total birds	106							21.6

($18^{\circ}30'N \approx 15^{\circ}$) $^{\circ}S$ at 1200)

Location $19^{\circ}01'N \approx 157^{\circ}00'W$ to $17^{\circ}36'N \approx 157^{\circ}01'W$

Observer Date 6 January, 1965 Time 0702 to 1807

Weather

三

85 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	5							0.5
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	2							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		404						36.3 per ha.
Gray-backed Tern								
Brown-winged Tern								
Common Noddy	1							
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	8							
Kermadec Petrel	4							3 light phase
White-necked Petrel	1							
Leach's Storm Petrel	36							
Storm Petrel	1							
Small Pterodroma	2							
Large Pterodroma	4							
Shumard's Petrel	10							
								43.6
								Total birds = 484

($14^{\circ}56'N$ $157^{\circ}08'W$ at 1208)

Location $15^{\circ}06'N$ & $157^{\circ}00'W$ to $13^{\circ}53'N$ & $156^{\circ}59'W$

Observer

Date 7 January 1965 Time 0658 to 1815

Weather

113

123 miles

($11^{\circ}22'N$ & $156^{\circ}49'W$ at 1200)

Location $11^{\circ}45'N$ & $156^{\circ}59'W$ To $10^{\circ}56'N$ & $155^{\circ}52'W$
 Observer Date 8 January, 1965 Time 0651 to 1816
 Weather 11-4

88 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	1							0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	5							0.1 per hr
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Kennedy Petrel	2							1 dark phase
Leach's Storm Petrel	1							
Newell's Shearwater	2							
Pterodroma	1							
Tropicbird	3							
Storm Petrel	1							
Sooty Pterodroma	1							
Large Pterodroma	2							69
Shearwater-Petrel	2							Total birds = 22

(11°01'N > 153°55'W at 1200)

Location $18^{\circ}00'N \rightarrow 15^{\circ}18'00'W$ to $11^{\circ}57'N \rightarrow 15^{\circ}02'W$

Observer _____ Date 9 January, 1965 Time 0635 to 1807

Weather

Date 9 January, 1965 Time 0635 to 1807

115

117 miles

($4^{\circ}5'N$ > $154^{\circ}05'W$ at 1200)

Location $14^{\circ}06'N$ $7154^{\circ}07'W$ to $16^{\circ}08'N$ $7154^{\circ}04'W$

Observer

Date 10 January 1965 Time 0645 to 1801

Weather

11.3

122 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	5							1 dark phase 0, 1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby	1							
Brown Booby								
Red-footed Booby								
Great Frigatebird	2							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	165							many immatures. 14.6
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	3							
Leach's Storm Petrel	5							
Kermadec Petrel	2							
Tropicbird	1							
Storm Petrel	1							
Small Pterodroma	1							
Large Pterodroma	5							
Shearwater - Petrel	8							
								total bark = 199

(19°00' N & 154°00' W ad 1200)

Location 18°15' N & 154°00' W to 20°13' N & 154°00' W

Observer

Date 11 January, 1965 Time 0650 to 1754

Weather

118 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								1 dark phase 1.6
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird		2						
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			436			393		
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern		1						
Leach's Storm Petrel			3					
White-necked Petrel			1					
Kermadec Petrel			1					
<i>bird</i>			1					
Pterodroma			1					
Large Pterodroma			2					
Shearwater - Petrel			12					
								total birds = 482

($23^{\circ}5'W$ > $153^{\circ}52'W$ at 1200)

Location $22^{\circ}11'N$ $\neq 153^{\circ}59'W$ to $23^{\circ}30'N$ $\neq 153^{\circ}09'W$

Observer

Date 12 January 1965 Time 0657 to 1744

Weather

120 miles

SPECIES	Abundance				Breeding		Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	
Laysan Albatross							
Black-footed Albatross	2						
Wedge-tailed Shearwater	5						0.5
Christmas I. Shearwater							
Audubon's Shearwater							
Bonin I. Petrel							
Phoenix I. Petrel							
Bulwer's Petrel							
Sooty Petrel							
Red-tailed Tropicbird							
White-tailed Tropicbird	2						
Masked Booby							
Brown Booby							
Red-footed Booby							
Great Frigatebird	1						
Golden Plover							
Ruddy Turnstone							
Wandering Tattler							
Sanderling							
Bristle-thighed Curlew							
Sooty Tern		128					11.9
Gray-backed Tern							
Brown-winged Tern							
Common Noddy							
Hawaiian Noddy							
Blue-gray Noddy							
Fairy Tern	2						
Leach's Storm Petrel	3						
Kermadec Petrel	1						
Chile - veed Petrel	1						
bird	1						14.7
large Pterochroa	2						
Shearwater - Petrel	11						
							Total birds = 159

($22^{\circ} 31' N$ & $150^{\circ} 52' W$ at 1200)

Location $23^{\circ} 24' N$ & $150^{\circ} 28' W$ to $21^{\circ} 42' N$ & $150^{\circ} 55' W$

Observer

Date 13 January 1965 Time 0649 to 1741

Weather

10.9

102 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	/							
Wedge-tailed Shearwater								0, 0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0, 0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Leach's Storm Petrel	2							
Hershel's Petrel	1							
Slender-billed Shearwater	1							
Long-tailed Shearwater	5							
Shearwater Petrel	4							
								1.3
								Total birds = 14

($18^{\circ}38'N$ > $151^{\circ}05'E$ at 1200)

Location $15^{\circ}30'N \geq 151^{\circ}08'W$ to $17^{\circ}28'N \geq 151^{\circ}02'W$

Observer

Date 14 January 1965 Time 0642 to 1748

Weather

卷之三

122 miles

(15° 0' 6" N > 15° 0' 3" N at 200)

Location $15^{\circ}46'N$ $\neq 100^{\circ}59'W$ to $14^{\circ}16'N$ $\neq 101^{\circ}04'W$

Observer

Date 15 January 1965 Time 0635 to 1753

Weather

卷之三

90 miles

(11°30'w + 150°5'6" w at 1200)

Location $12^{\circ}0'N$ to $15^{\circ}5'N$ to $11^{\circ}0'N$ to $15^{\circ}0'N$

Observer

Date 16 January 1965 **Time** 0630 to 1756

Weather

卷之三

98 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	/							0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	/							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	3							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		661						58.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	/							
<i>Leach's Storm Petrel</i>	/							
<i>Laysan Petrel</i>	8							59.7
<i>Shearwater - Petrel</i>	5							
								Total band = 681

($10^{\circ}55'w$ to $148^{\circ}03'w$ at 1200)

Location $10^{\circ} 06'N$ > $148^{\circ} 10'W$ to $11^{\circ} 4'N$ > $148^{\circ} 05'W$

Observer

Date 17 January 1965 Time 0615 to 1747

Weather

11.5

108 miles

(140°46'w > 148°02'w at 1200)

Location $13^{\circ}54'w$ to $148^{\circ}04'w$

Observer

Date 18 January 1963 Time 0620 to 1741

Weather

11.4

118 miles

$118^{\circ}51'W$ & $147^{\circ}57'W$ at 1200)

Location $17^{\circ}45'N$ $147^{\circ}38'W$ to $19^{\circ}43'N$ $148^{\circ}03'W$

Observer

Date 19 January 1965 Time 0626 to 1736

Weather

118 miles

11, 2

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								○ ○
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	/							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								○ ○
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
<i>Leach's Storm Petrel</i> 4								
bird	1							0.5
								- total bird = 6

($22^{\circ}38'N$ > $147^{\circ}56'W$ at 1200)

Location $21^{\circ}51'N$ $7147^{\circ}55'W$ to $23^{\circ}38'N$ $7148^{\circ}01'W$

Observer

Date 20 January 1965 Time 0635 to 1730

Weather

10.9

99 miles

($26^{\circ}21'w$ > $148^{\circ}11'w$ at 1200)

Location $25^{\circ}53'N$, $147^{\circ}56'W$ to $25^{\circ}52'N$, $145^{\circ}16'W$

Observer

Date 21 January 1965 Time 0640 to 1731

Weather

10.8

112 miles

(24°5'N > 131°54'W at 1200)

Location $25^{\circ}03'N$ \times $150^{\circ}55'W$ to $24^{\circ}55'N$ \times $153^{\circ}05'W$

Observer

Date 22 Jan 1965 Time 0651 to 1749

Weather

11.0

118 miles

($24^{\circ}57'N$ & $156^{\circ}39'W$ at 1200)

Location $24^{\circ}59'N$ $\approx 155^{\circ}38'W$ to $24^{\circ}20'N$ $\approx 155^{\circ}58'W$
Observer Date 23 January 1915 Time 0709 to 1806
Weather 105 miles 11.0

albicans

1

1.5

Show at - Petrol

1

$$\text{total fuels} = 16$$

($21^{\circ}59'W$ > $15^{\circ}7'03'W$ at 1000)

Location $22^{\circ}17'W$ > $15^{\circ}6^{\circ}59'W$ to $21^{\circ}14'W$ > $15^{\circ}7^{\circ}50'W$

Observer

Date 24 January 1965 Time 0710 to 1600

Weather

86 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross		11						
Wedge-tailed Shearwater	1					0.1		
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	1							
Masked Booby								
Brown Booby	4							
Red-footed Booby		17						
Great Frigatebird		10						
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		372			42.3			
Gray-backed Tern								
Brown-winged Tern								
Common Noddy		47						
Hawaiian Noddy	6							
Blue-gray Noddy								
Fairy Tern								
Pomarine Jaeger	4.							
Terns	17							56.0
Small Pterodroma	1							
Shearwater - Petrel	2				total birds = 493			